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2 Carman - US Patent 5.454,046, 1995 - Google Patents
TREE NODE 386 CREATE AND VISIT DOWN SEARCH TREE NODE 388 ... 410 PERFORM PARSER-LEVEL RECOGNITION 428 416 WORD CONFIRMATION 430 420 ... 5.454.046 10 20 UNIVERSAL SYMBOLIC HANDWRITING RECOGNITION SYSTEM TECHNICAL FIELD The ... Cited by 37 - Proloted practos - All 2 yearstons.

Incremental system for real time digital ink analysis 5 Raghujushty, MM Shilman, Z. Wei \_. - US Palent App. 10' ... , 2002 - Google Palents ... O5 CO Mark Changed Nodes in Snapshot as Parser Dirty Appropriately Rewrite Doc Tree Based on ... follow these instructions may cause recognition errors or other errors when the electronic ink is presented to an associated handwriting recognition system, thereby ...

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Finger mouse and gesture recognition system as a new human computer interface BK Ko. . . Computers & Graphics 1997

... group at IBM constructed a spreadsheet application that combines gesture and handwriting [4]. Buxton's ... Figure 9 shows a decision tree for the set of gestures of our example ... Eager recognition refers to 4. FINGER DRAW-AN EXAMPLE GESTURE-BASED APPLICATION FDraw ...

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Incremental system for real time digital ink analysis

S Raghupathy, MM Shilman, Z Wei... - US Patent App. ..., 2002 - freepatentsonline.com ... and methods according to the invention may relate to an overall electronic ink processing system ... Similarly, if the parser engine 1308 is a handwriting recognition system 310, the output may ... As noted above, however, the user 1300 may change the document tree data structure ... Cached

[PDF] The thesis of Ching-Wei Chen is approved.

E Chang .. - 2001 - Citesee

... multiple letters, and groups of several words, to be treated as one unit for handwriting recognition. ... previously completed strokes, and uses it's proprietary recognition engine to decide what was written, ... Figure 6 provides a snapshot of PenOffice in action, ...

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Evolutionary learning of modular neural networks with genetic programming Intelligence, 1998 - Springer

... 5(b)), • Mutation: Mutation changes each tree node to a new node in proportion to the mutation rate. ... The network is constructed as 100 × 20 × 10, where the number of hidden nodes, 20, has been ... Workshop Frontiers in Handwriting Recognition, Montreal, Canada, 1990, pp. ...

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Ink divider and associated application program interface S Dodge, A Gounares, AJ Goldberg... - US Patent App. 10/ .... 2003 - Google Patents ... Classification Analysis 314 Annotation Drawings /306 Writing Normalization /308 Handwriting Recognition 310 Lines ... faces where, for example, users can input and interact with electronic ink on a ... for ease of use, compatibility, making possible improved handwriting rec- ognition ...

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Recognition of handwritten similar Chinese characters by neural networks

HC Full. . . . Networks for Signal Processing [1996] VI..., 1996 - leeexplore lees.org ... output 01 (denoted as "N"), if the D-node outputs is lower than Thd, and the S- node output is ... Figure 7: The decision tree in the MUXNET. ... classifier recognition systems, in the proceedings of of the fourth int.er- national workshop on frontiers in handwriting recognition (IWFHR-IV ... Cited by 2 - Related articles - All 2 versions

Data clustering: a review

AK Jain, MN Murty. - ACM computing surveys (CSUR), 1999 - portal acro.org ... an increasing in-terest in the use of clustering methods in pattern recognition [Anderberg 1973 ... of vari- ous clustering algorithms for construct- ing the minimal spanning tree and the ... Michalski and Stepp 1983] which are represented as trees, where the parent node represents a ... Cited by \$150 - Peimed anicles - Bt. Grega - Ali 167 versions

Ink divider and associated application program interface

S Dodge, A Couriares. AJ Goldberg... - US Patent App..... 2003 - freepatentsonline.com ... and methods according to examples of this invention may be used with pen-based computing systems that accept and process electronic ink and ink ... 3), and the other is a recognition engine 408 (which may conduct, for example, handwriting recognition analysis 310 and/or ... Cached

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(PDF) Off-line Omni-style Handwriting Arabic Character Recognition System Based on Wavelet Compression

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AA Aburas. - Arab Research Institute in Sciences & ... 1994 - Citeseer ... The tree is known as a filter bank as depicted in Fig. 2 At each level, the signal is

decomposed into low and high frequencies. ... Page 5. Off-line Omni-style Handwriting Arabic Character Recognition System Based on Wavelet Compression 127 FIG. ...

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Reduction of non deterministic automata for hidden Markov model based pattern recognition applications

F Maire, F Wathne.. - At 2003. Advances in Artificial Intelligence, 2003 - Springer

... Most on-line cur- sive handwriting recognition systems use a lexical constraint to help improve the ... in storage can be obtained simply by using a trie (a well known tree-like data ... have worked on similar problems with Finite State Automata (FSA) for Automatic Speech Recognition. ...

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Distance features for neural network-based recognition of handwritten characters IS Oh ..... Journal on Document Analysis and Recognition, 1998 - Springer ... From the tree structures, character models for each class are constructed so that they can be ... Since

a neural network architecture requires a fixed number of input nodes, the numerical ... 1. The evaluation is performed in the specific domain of handwriting recognition by the neural ...

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On the choice of training set, architecture and combination rule of multiple mlp classifiers for multiresolution recognition of handwritten characters

hattacharya, S Vajda, A Mallick, BB Chaudhari .. - 2004 - computer.org

... A wavelet transform is usually implemented by a binary tree of filters. ... Proceedings of the 9th Int'l Workshop on Frontiers in Handwriting Recognition (IWFHR-9 2004) 0-7695-2187-8/04 \$20.00 ... where wik(t) is the weight connecting a hidden node j with an output node k while wij(t ... Cited by 10 - Related articles - All 9 versions

Method and apparatus for an improved language recognition system

H Alshawi - US Patem 5,870,706, 1999 - Google Patents ... Probabilities are assigned as the sum of probabilities of all tree derivations for which words in the candidate string appear as fringe nodes. ... methods are appli- cable to all modalities of language recognition, including, without limitation, handwriting recognition and optical char ...

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Incremental system for real time digital ink analysis S Raghupathy, MM Shilman, Z Wei ... - US Patent App. ..., 2002 - freepatemsonline.com ... [0042] Systems and methods according to the invention may relate to an overall electronic ink processing system ... and the other is a recognition engine 1308 (which may conduct, for example, handwriting recognition analysis 310 and/or annotation recognition analysis 314 ...

Cached

Electronic ink processing

J Wakeam, R Duncan, B Dresevic... - US Platent App. 10/ ..., 2003 - Google Patents ... 24,2005 (54) ELECTRONIC INK PROCESSING (75) Inventors: Jamie Wakeam, Redmond, WA (US); Richard Duncan, Kirkland, WA (US); Bodin Dresevic, Bellevue, WA (US); Kerry Sutanto, Kirkland, WA (US); Sashi Raghupathy, Redmond, WA (US); Timothy H. Kannapel ...

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[PDF] A rapidly learning interpretation system for on-line cursive handwriting G Qian .. - 1998 - Citeseer

... The analysis employs pruning of a tree based lexicon. ... boundary of high and middle zones that we have found to be important for both handwriting recognition and learning. ... The idea of describing handwriting as a sequence of feature vec- tors is widely used; see, for example ...

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